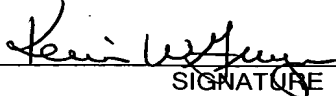


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| FORM PTO-1390US DEPARTMENT OF COMMERCE REV. 5-93PATENT AND TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | EXPRESS MAIL ER227893846US ATTORNEYS DOCKET NUMBER 09796503-0163 U.S. APPLICATION NO. (known) sec. 37 C.F.R. 1.5) 107502070 |
| INTERNATIONAL APPLICATION NO. PCT/EP03/00470 | INTERNATIONAL FILING DATE 18 January 2003 | PRIORITY DATE CLAIMED 21 January 2002 |
| TITLE OF INVENTION HEAT SOURCE OR HEAT SINK SYSTEM WITH THERMAL GROUND COUPLING | | |
| APPLICANT(S) FOR DO/EO/US Klemens Waterkotte | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay. 4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date and the U.S. has been elected. 5. <input checked="" type="checkbox"/> A copy of International Application (35 U.S.C. 371(c)(2)) a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3)) a. <input checked="" type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input checked="" type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)) 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). Unexecuted 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11. to 16. below concern other document(s) or information included: 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; . 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 15. <input checked="" type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A change of power of attorney and/or address letter. 17. <input type="checkbox"/> Other items or information: a. <input type="checkbox"/> Submission of Corrected Drawing Fig. 1 (1 page) b. <input type="checkbox"/> PCT Forms IB/301, 304, 308 | | |

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|--|--------------|---|------------|--|--------------|
| U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) 10/502070 | | INTERNATIONAL APPLICATION NO. PCT/03/00470 | | ATTORNEY'S DOCKET NUMBER 09796503-0163 | |
| 17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5): Neither international preliminary examination fee (37 CFR §1.482) Nor international search fee (37 CFR §1.445(a)(2)) paid to USPTO And International Search Report not prepared by the EPO or JPO \$1080.00 International preliminary examination fee (37 C.F.R. §1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$ 920.00 International Preliminary examination fee (37 CFR §1.482) not paid to USPTO But international search fee (37 CFR §1.445(a)(2)) paid to USPTO \$ 770.00 International preliminary examination fee (37 C.F.R. §1.482) paid to USPTO But all claims did not satisfy provisions of PCT Article 33(1)-(4) \$ 730.00 International preliminary examination fee (37 CFR §1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$ 100.00 | | | | CALCULATIONS | PTO USE ONLY |
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| ENTER APPROPRIATE BASIC FEE AMOUNT = | | | | \$ 920.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)). | | | | \$ | |
| Claims | Number Filed | Number Extra | Rate | | |
| Total Claims | 18 = | 0 | X \$ 18.00 | \$ 0 | |
| Independent Claims | 1 = | 0 | X \$ 86.00 | \$ 0 | |
| Multiple Dependent Claims | | | \$290.00 + | \$ 0 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 920.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR §1.27. The fees indicated above are reduced by ½. | | | | \$ | |
| SUBTOTAL = | | | | \$ 920.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). + | | | | \$ 0 | |
| TOTAL NATIONAL FEE = | | | | \$ 920.00 | |
| Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property + | | | | \$ | |
| TOTAL FEES ENCLOSED = | | | | \$ 920.00 | |
| | | | | Amount to be refunded | \$ |
| | | | | Charged | \$ |
| a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> The Commissioner is requested and authorized to charge the amount of \$920.00 fee to American Express, Form 2038 is attached for that purpose. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-3140. A duplicate copy of this sheet is enclosed. | | | | | |
| SEND ALL CORRESPONDENCE TO: Sonnenschein, Nath & Rosenthal LLP P.O. Box 061080 Wacker Drive Station - Sears Tower Chicago, Illinois 60606-1080 Customer No. 26263 Telephone 312/876-8000 | | | |  SIGNATURE | |
| | | | | Kevin W. Gynn Reg. No. 29,927 NAME July 20, 2004 ER 227893846 US Date EXPRESS MAIL NO. | |

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July 20, 2004

DT03 Rec'd PTO

20

JUL 2004

10/502070

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CERTIFICATE OF MAILING

"Express Mail" Mailing Label Number **ER 227893846US**

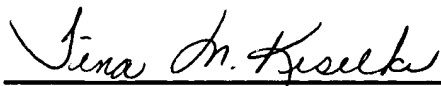
Date of Deposit: July 20, 2004

Attorney's Docket No. 09796503-0162

I hereby certify that the following items are being deposited with the United States Postal "Express Mail Post Office Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to: The Assistant Commissioner of Patents, **Box PCT Application, P.O. Box 1450, Alexandria, VA 22313-1450.**

U.S. patent application entitled "HEAT SOURCE OR HEAT SINK SYSTEM WITH THERMAL GROUND COUPLING"

1. Transmittal Letter Under 35 U.S.C. 371;
2. Specification (as filed as an International application); (5a)
3. Translation of original application (6)
4. 2 Sheets of Drawings;
5. English Translation of Amended Claims (8)
6. Amended claims of International application (7a)
7. Preliminary Amendment (13)
8. Substitute Specification (15)
9. Information Disclosure Statement, including transmittal letter and 1449 form (11)
10. PTO Form 2038 for American Express charges
11. Declaration Copy – Un-Executed (19)
12. Postcard;
13. Certificate of Mailing Label No. **ER227893846US.**



Signature of person mailing application and fee

July 20, 2004